

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P210501

Luminaire Tested: **CLCSLED-117-SM-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P210501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28994)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCSLED-117-SM-UNV
Description: Canopy Wall Pack
Light Source: (1) 4000K CCT, 72 CRI LEDS
CLU048-1812
Ballast/Driver: MEAN WELL
MW HLG-120H-54

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13828 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1.33' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

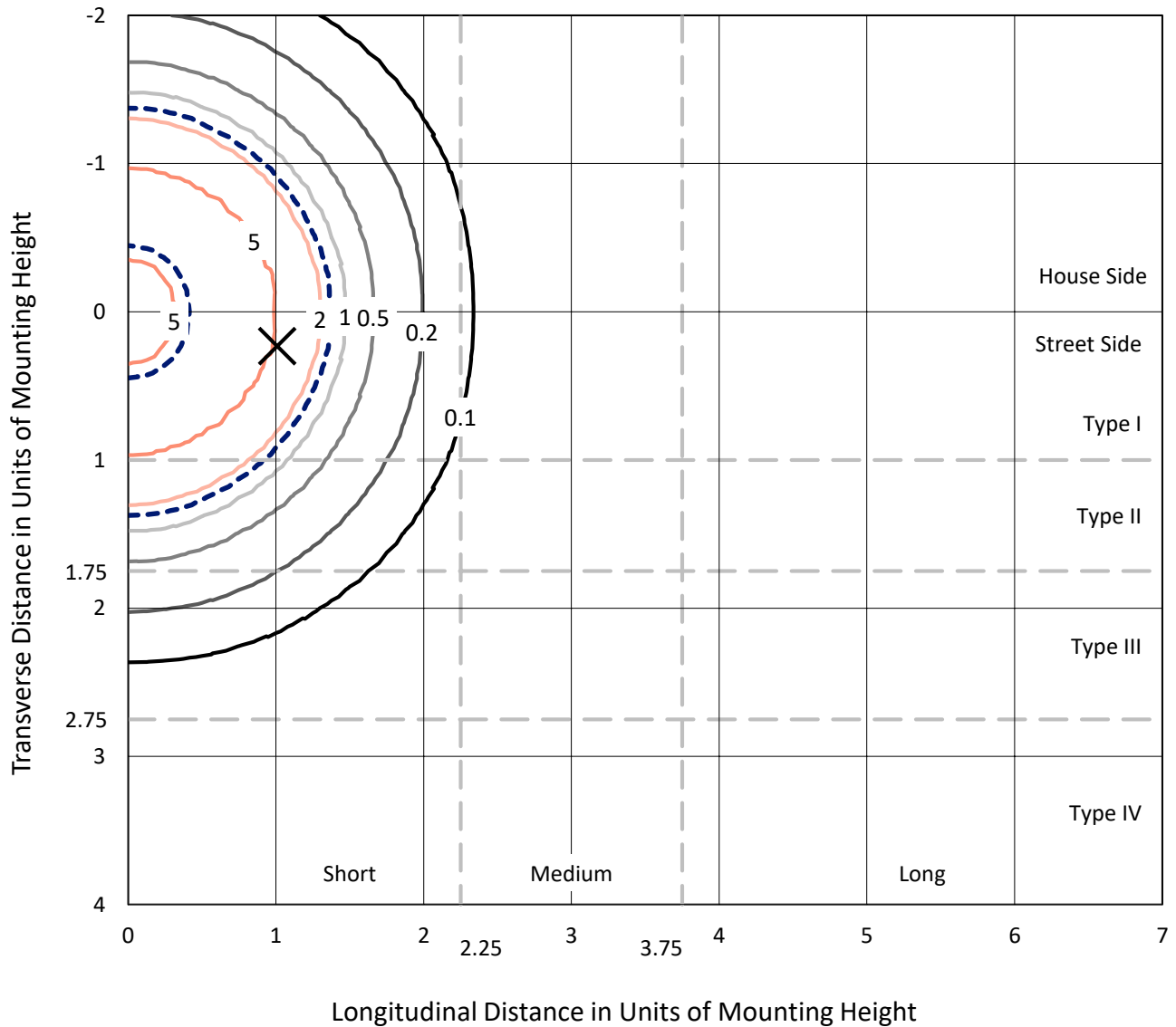
Input Watts (W): 121.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

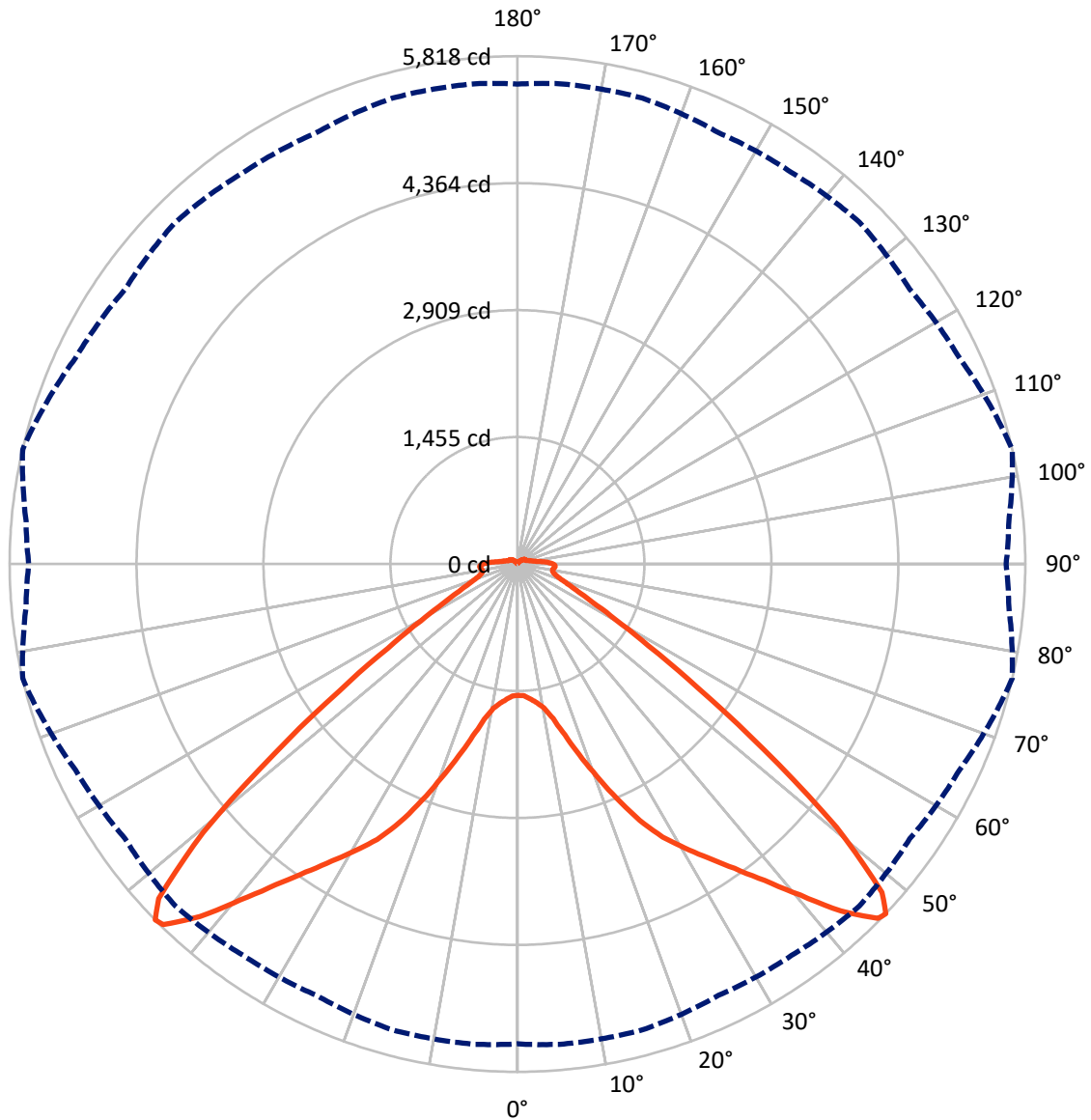
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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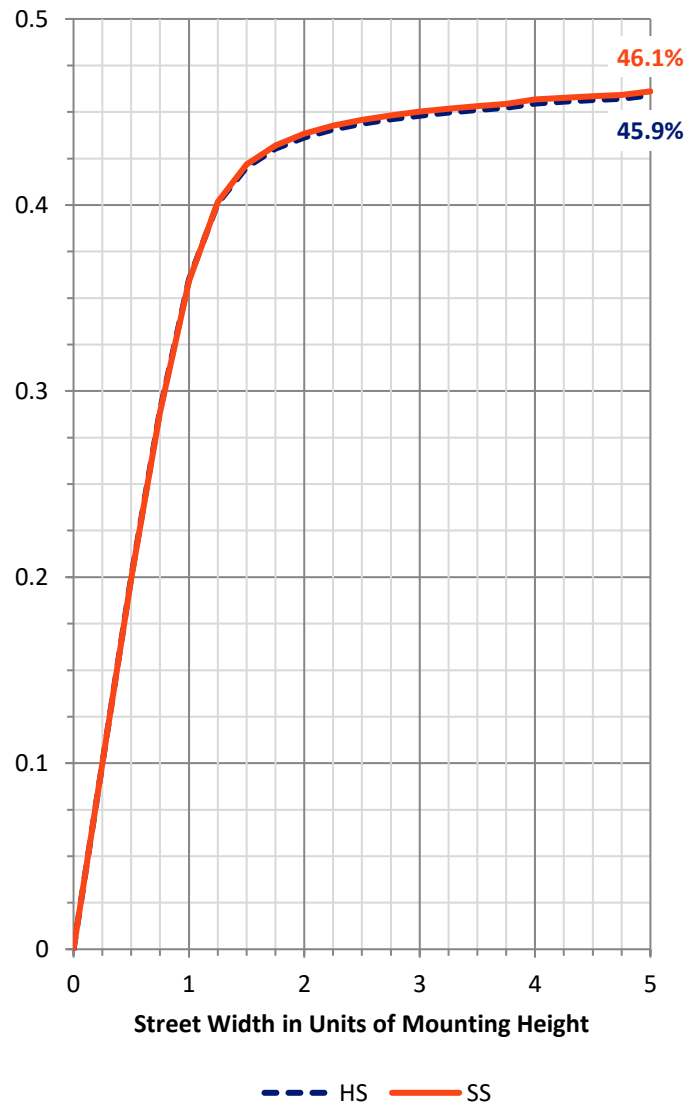
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6526.8	387.2	6914.0
	% Fixture	47.2	2.8	50.0
Street Side	Lumens	6526.8	387.2	6914.0
	% Fixture	47.2	2.8	50.0
Total	Lumens	13053.6	774.4	13828.0
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.1
10°-20°	588.6	4.3
20°-30°	1445.4	10.5
30°-40°	2648.9	19.2
40°-50°	4054.8	29.3
50°-60°	2303.7	16.7
60°-70°	835.6	6.0
70°-80°	510.3	3.7
80°-90°	515.1	3.7
90°-100°	342.6	2.5
100°-110°	168.6	1.2
110°-120°	114.3	0.8
120°-130°	85.7	0.6
130°-140°	44.5	0.3
140°-150°	16.0	0.1
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13053.6	94.4
0°-180°	13828.0	100.0



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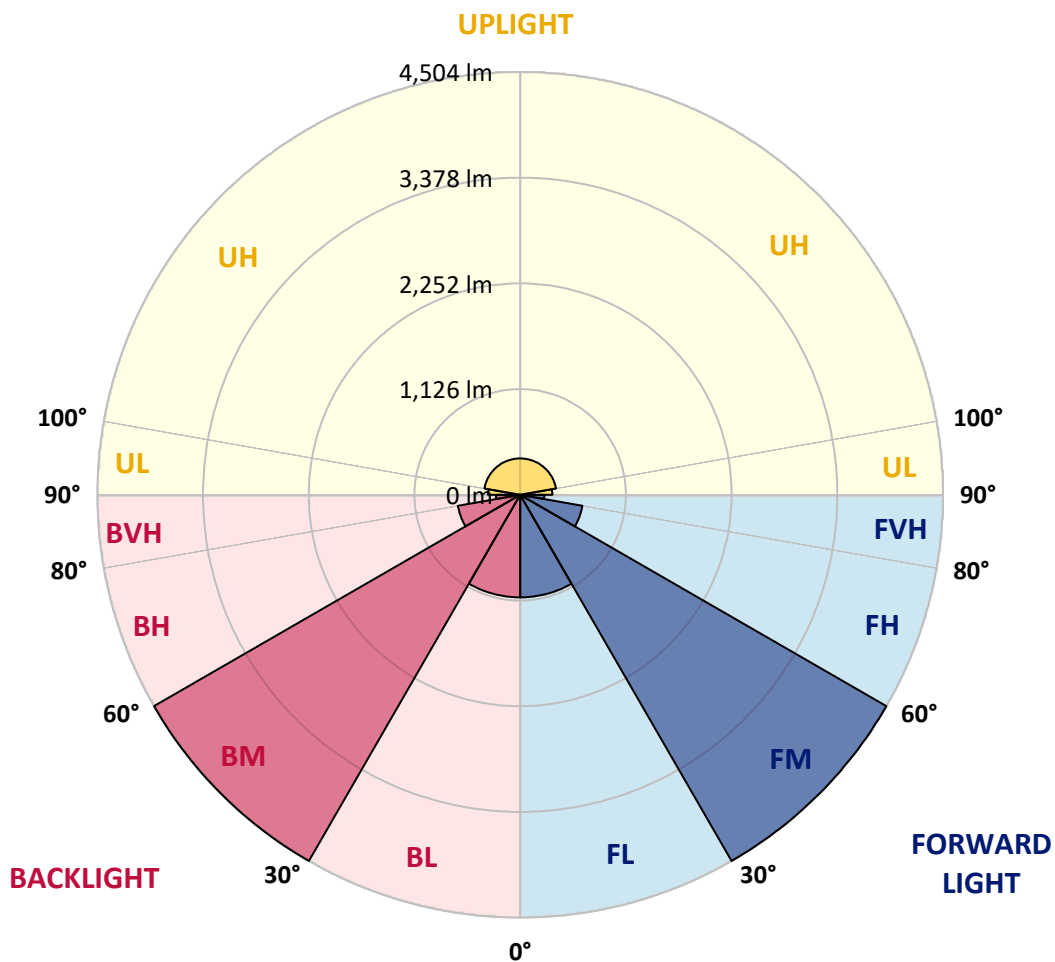
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.5	7.9			
FM (30°-60°)	4503.7	32.6			
FH (60°-80°)	673.0	4.9			G1/1800
FVH (80°-90°)	257.6	1.9			G3/500
BL (0°-30°)	1092.5	7.9	B3/2500		
BM (30°-60°)	4503.7	32.6	B3/5000		
BH (60°-80°)	673.0	4.9	B2/1000		G1/1800
BVH (80°-90°)	257.6	1.9			G3/500
UL (90°-100°)	342.6	2.5		U3/500	
UH (100°-180°)	387.2	2.8		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5
2.5°	1512.8	1511.6	1511.6	1510.5	1511.6	1511.6	1514.0	1514.0	1514.0	1511.6	1516.4
5°	1543.6	1542.4	1542.4	1542.4	1543.6	1544.8	1549.5	1551.8	1553.0	1551.8	1556.6
7.5°	1586.2	1583.8	1583.8	1583.8	1586.2	1590.9	1596.8	1600.3	1605.1	1605.1	1608.6
10°	1644.1	1641.7	1640.6	1646.5	1647.7	1654.8	1665.4	1668.9	1673.7	1676.0	1679.6
12.5°	1761.2	1756.5	1757.7	1773.0	1783.7	1796.7	1810.9	1810.9	1812.1	1816.8	1820.3
15°	1944.5	1941.0	1946.9	1971.7	1994.2	2009.6	2028.5	2027.3	2026.2	2032.1	2036.8
17.5°	2183.5	2175.2	2187.0	2208.3	2243.8	2258.0	2279.3	2284.0	2288.7	2298.2	2299.4
20°	2446.1	2437.8	2454.3	2469.7	2501.6	2520.6	2550.1	2559.6	2576.2	2590.4	2591.5
22.5°	2735.8	2724.0	2740.6	2747.7	2771.3	2792.6	2828.1	2856.5	2889.6	2921.5	2918.0
25°	3026.8	3029.2	3031.5	3038.6	3056.4	3077.7	3108.4	3166.4	3214.9	3252.7	3248.0
27.5°	3285.9	3289.4	3290.6	3301.2	3317.8	3341.4	3373.4	3440.8	3490.5	3541.3	3526.0
30°	3526.0	3529.5	3517.7	3533.1	3557.9	3583.9	3617.0	3678.5	3721.1	3774.4	3744.8
32.5°	3783.8	3775.5	3766.1	3780.3	3815.8	3848.9	3878.4	3935.2	3960.1	4010.9	3962.4
35°	4071.2	4084.2	4067.7	4068.9	4122.1	4155.2	4174.1	4221.5	4240.4	4283.0	4215.5
37.5°	4413.1	4436.7	4427.3	4422.5	4480.5	4519.5	4514.8	4557.4	4573.9	4598.8	4523.1
40°	4854.3	4856.6	4828.2	4828.2	4887.4	4940.6	4931.1	4976.1	4983.2	4986.7	4906.3
42.5°	5278.9	5290.7	5269.4	5248.1	5301.4	5343.9	5366.4	5424.4	5451.6	5435.0	5338.0
45°	5506.0	5543.8	5548.6	5483.5	5516.6	5569.9	5546.2	5638.5	5781.6	5792.2	5645.6
46°	5497.7	5523.7	5526.1	5452.8	5475.2	5540.3	5487.1	5586.4	5781.6	5818.3	5651.5
47.5°	5336.8	5312.0	5316.7	5207.9	5223.3	5267.1	5223.3	5291.9	5556.8	5620.7	5456.3
50°	4511.2	4524.3	4500.6	4340.9	4335.0	4359.8	4350.4	4352.7	4626.0	4737.2	4571.6
52.5°	3485.7	3450.3	3431.3	3276.4	3269.3	3283.5	3282.3	3288.2	3424.2	3534.2	3425.4
55°	2468.5	2519.4	2488.6	2379.8	2368.0	2403.5	2359.7	2382.2	2434.2	2507.6	2410.6
57.5°	1797.9	1833.4	1801.4	1737.6	1725.7	1741.1	1724.5	1736.4	1729.3	1769.5	1705.6
60°	1349.6	1359.1	1334.2	1302.3	1284.5	1291.6	1290.4	1279.8	1270.3	1285.7	1256.1
62.5°	1029.0	1025.5	1019.6	1008.9	993.6	997.1	993.6	991.2	969.9	965.2	955.7
65°	803.1	800.8	810.2	812.6	803.1	809.0	800.8	799.6	773.6	766.5	755.8
67.5°	651.7	651.7	662.4	676.6	676.6	683.7	678.9	669.5	642.3	631.6	621.0
70°	548.8	550.0	563.0	581.9	590.2	597.3	590.2	576.0	548.8	538.2	524.0
72.5°	475.5	476.7	496.8	521.6	533.4	540.5	531.1	514.5	482.6	473.1	454.2
75°	425.8	429.4	454.2	486.1	500.3	506.2	498.0	479.0	443.6	434.1	411.6
77.5°	390.3	396.2	429.4	469.6	490.9	496.8	489.7	464.8	422.3	411.6	386.8
80°	373.8	380.9	422.3	474.3	502.7	509.8	502.7	471.9	417.5	406.9	376.1
82.5°	378.5	385.6	431.7	496.8	531.1	538.2	531.1	493.2	429.4	417.5	384.4
85°	393.9	401.0	447.1	518.1	557.1	563.0	553.6	512.2	443.6	431.7	399.8
87.5°	402.2	408.1	448.3	514.5	551.2	551.2	542.9	503.9	442.4	431.7	404.5
90°	382.0	386.8	417.5	470.8	501.5	496.8	487.3	454.2	408.1	398.6	379.7
92.5°	339.5	345.4	364.3	403.3	430.5	424.6	414.0	386.8	357.2	350.1	338.3
95°	268.5	273.2	287.4	318.2	343.0	340.6	330.0	307.5	283.9	281.5	270.9
97.5°	209.4	211.7	224.7	249.6	270.9	274.4	263.8	242.5	223.6	218.8	211.7
100°	172.7	175.1	188.1	211.7	225.9	230.6	220.0	205.8	185.7	182.2	173.9
102.5°	154.9	156.1	169.1	186.9	196.3	197.5	190.4	179.8	164.4	162.0	152.6
105°	139.6	140.8	150.2	164.4	172.7	172.7	166.8	158.5	144.3	143.1	136.0
107.5°	125.4	125.4	133.7	145.5	153.8	154.9	149.0	140.8	128.9	126.6	120.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	112.4	112.4	120.6	132.5	140.8	141.9	136.0	127.7	115.9	113.5	108.8
112.5°	104.1	104.1	111.2	123.0	131.3	133.7	128.9	119.5	107.6	105.3	101.7
115°	100.5	100.5	106.5	118.3	125.4	128.9	124.2	117.1	105.3	101.7	99.4
117.5°	99.4	99.4	101.7	113.5	121.8	125.4	121.8	114.7	102.9	100.5	100.5
120°	99.4	98.2	99.4	111.2	117.1	119.5	118.3	111.2	100.5	99.4	100.5
122.5°	97.0	98.2	95.8	105.3	111.2	112.4	110.0	105.3	97.0	97.0	99.4
125°	92.3	92.3	89.9	97.0	102.9	104.1	101.7	97.0	91.1	91.1	93.4
127.5°	85.2	85.2	81.6	86.3	92.3	93.4	92.3	87.5	82.8	84.0	86.3
130°	76.9	76.9	73.3	75.7	80.4	81.6	80.4	75.7	73.3	74.5	75.7
132.5°	67.4	67.4	65.1	65.1	69.8	71.0	68.6	62.7	62.7	63.9	65.1
135°	59.1	60.3	56.8	54.4	58.0	59.1	56.8	50.9	53.2	54.4	56.8
137.5°	52.0	52.0	49.7	44.9	47.3	48.5	46.1	41.4	46.1	47.3	48.5
140°	43.8	43.8	41.4	37.8	37.8	37.8	35.5	34.3	37.8	39.0	40.2
142.5°	36.7	36.7	35.5	30.8	28.4	29.6	26.0	27.2	30.8	31.9	33.1
145°	30.8	30.8	28.4	24.8	20.1	21.3	17.7	22.5	26.0	26.0	27.2
147.5°	24.8	24.8	23.7	20.1	14.2	13.0	13.0	17.7	21.3	21.3	22.5
150°	20.1	20.1	17.7	14.2	9.5	3.5	8.3	13.0	16.6	16.6	17.7
152.5°	14.2	14.2	13.0	9.5	4.7	1.2	4.7	9.5	11.8	13.0	13.0
155°	9.5	9.5	7.1	4.7	1.2	0.0	0.0	4.7	7.1	8.3	8.3
157.5°	3.5	3.5	2.4	1.2	0.0	0.0	0.0	1.2	1.2	2.4	3.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°
0°	1504.5
2.5°	1515.2
5°	1556.6
7.5°	1606.3
10°	1676.0
12.5°	1816.8
15°	2034.4
17.5°	2298.2
20°	2591.5
22.5°	2912.1
25°	3250.4
27.5°	3530.7
30°	3744.8
32.5°	3958.9
35°	4203.7
37.5°	4503.0
40°	4879.1
42.5°	5315.6
45°	5598.2
46°	5599.4
47.5°	5391.3
50°	4503.0
52.5°	3372.2
55°	2403.5
57.5°	1693.8
60°	1240.8
62.5°	948.6
65°	749.9
67.5°	617.4
70°	519.3
72.5°	450.7
75°	406.9
77.5°	382.0
80°	371.4
82.5°	378.5
85°	393.9
87.5°	399.8
90°	376.1
92.5°	337.1
95°	270.9
97.5°	211.7
100°	173.9
102.5°	152.6
105°	136.0
107.5°	121.8



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CANDELA DISTRIBUTION (continued):

	90°
110°	110.0
112.5°	102.9
115°	99.4
117.5°	100.5
120°	100.5
122.5°	99.4
125°	94.6
127.5°	86.3
130°	76.9
132.5°	66.2
135°	56.8
137.5°	48.5
140°	40.2
142.5°	33.1
145°	27.2
147.5°	22.5
150°	17.7
152.5°	13.0
155°	8.3
157.5°	3.5
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)